## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 20 October 2005 (20.10.2005)

**PCT** 

## (10) International Publication Number WO 2005/096824 A1

(51) International Patent Classification<sup>7</sup>: A01M 1/02, 1/10, A01N 31/00

A01N 63/02,

(21) International Application Number:

PCT/CA2005/000522

(22) International Filing Date: 6 April 2005 (06.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/559,452 6 April 2004 (06.04.2004) US

(71) Applicants and

(72) Inventors: GRIES, Gerhard [DE/CA]; 484 Cariboo Crescent, Coquitlam, British Columbia V3C 4X7 (CA). JUMEAN, Zaid [CA/CA]; 1375 Lakeshore Road, Sarnia, Ontario N7S 2M3 (CA). GRIES, Regine [DE/CA]; 484 Cariboo Crescent, Coquitlam, British Columbia V3C 4X7 (CA).

(74) Agents: OYEN, Gerald, O., S. et al.; Oyen Wiggs Green & Mutala LLP, #480 - The Station, 601 West Cordova Street, Vancouver, British Columbia V6B 1G1 (CA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

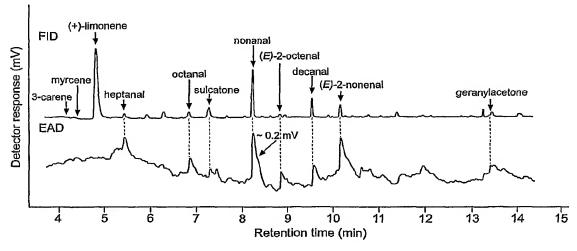
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC AGGREGATION PHEROMONE FOR MANIPULATING THE BEHAVIOUR OF CODLING MOTH, CYDIA POMONELLA, LARVAE



(57) Abstract: This invention relates to a composition and procedure for manipulating the behaviour of codling moth larvae, Cydia pomonella (L.) (Lepidoptera: Olethreutidae). In particular, this invention relates to the use of specific pheromone components for manipulating the behaviour of C. pomonella larvae. A composition of chemicals for manipulating the behaviour of Cydia pomonella larvae, said composition comprising two or more chemicals in all possible combinations and ratios selected from the group consisting of: 1) heptanal; 2) 6-methyl-5-hepten-2-one (sulcatone); 3) myrcene; 4) octanal; 5) 3-carene; 6) (+)-limonene; 7) (E)-2-octenal; 8) nonanal; 9) (E)-2-nonenal; 10) decanal; 11) geranylacetone.

